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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/626,568	07/25/2003	Motoyuki Shioiri	0666.2060000/TGD	9342
26111 75	590 06/27/2006		EXAMINER	
STERNE, KESSLER, GOLDSTEIN & FOX PLLC			MOULIS, THOMAS N	
	1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005		ART UNIT	PAPER NUMBER
	,		3747	
			DATE MAILED: 06/27/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commons	10/626,568	SHIORI ET AL				
Office Action Summary	Examiner	Art Unit				
	Thomas N. Moulis	3747				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	action is non-final.					
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	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Diamonition of Claims	•					
Disposition of Claims						
4) Claim(s) 1-7 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
	6) Claim(s) <u>1-7</u> is/are rejected.					
•	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>25 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
·						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
·— _ ·— ·—	s have been received					
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. <u>PCT/JP02/00397</u>. 						
3. Copies of the certified copies of the priority documents have been received in Application No. <u>PC 1/3 P02/00391</u> .						
application from the International Bureau (PCT Rule 17.2(a)).						
· · · · · · · · · · · · · · · · · · ·						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) What is a summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	3) Notice of Informal Patent Application (PTO-152)					
Paper No(s)/Mail Date 7/25/03.	6) Other:					
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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being

indefinite for failing to particularly point out and distinctly claim the subject matter which

applicant regards as the invention. The claims are generally in poor form. Claim 1 is

confusing for reciting "an energizing member for axially energizing the fuel injection

nozzle retainer". It is not understood how the injector nozzle retainer is being

energized. Clearly the valves are being operated by the rocker arm, but the nozzle

appears to be bolted in place.

- 3. Claim 5 is indefinite for reciting "a denied top of the head bolt".
- 4. Claim 3 includes a typo in the last line. Claim 3 is also indefinite. The phrase

"so as to be [sic] attached onto the cylinder head." It is unclear what is attached onto

the cylinder head, the nozzle or the head bolt or the retainer.

5.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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7. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 4-109471. The reference disclose a fuel injection nozzle 26 of an engine, wherein the fuel injection nozzle is fixed into a cylinder head by a fuel injection nozzle retainer 28 supported by a support shaft 16 which also supports valve arms and an energizing members for axially energizing the valves. See Figures 1 and 3.

- 8. Regarding claim 2, see figure 1 showing the inlet valve arranged on one side of the fuel injection nozzle retainer, and the valve arm for an exhaust valve is arranged on the other side of the fuel injection nozzle retainer.
- 9. Claims 6-7 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by JP 10-9092. Note the fuel line 2 supplying fuel to the injector. The fuel line penetrates the valve cover and includes a seal member 3.

10.

11. Claims 6-7 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Johnson US 4,384,557. Note the fuel line supplying fuel to the injector. The fuel line 16 penetrates the valve cover and includes a seal member 60.

Claim Rejections - 35 USC § 103

- 12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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13. Claims 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schmidt et al US 5,609,134. The reference discloses a fuel injection nozzle 11 of an engine, wherein the fuel injection nozzle is fixed into a cylinder head by an injection nozzle retainer 33. It would have been an obvious matter of design choice to one of ordinary skill in the art at the time of the invention to form the retainer such that it straddles a cylinder head bolt head below it, depending on the number of head bolts and their locations since it is not critical to the mounting of the retainer or the cylinder head.

Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the cited art showing various fuel injector mounting arrangements.

See also the cited documents showing fuel lines passing into the valve cover.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas N. Moulis whose telephone number is 571 272 4852. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen K. Cronin can be reached on 571 272-4536. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) of 571-272-1000.

Thomas N Moulis Primary Examiner Art Unit 3747

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